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L3: Entry 1 of 1

File: DWPI

Oct 22, 2002

DERWENT-ACC-NO: 2000-505773  
DERWENT-WEEK: 200301  
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TITLE: Lawful interception method for packet networks e.g. general packet radio services (GPRS) ,universal mobile telecommunication system (UMTS) using intercept nodes and gateways

INVENTOR: HIPPELAEINEN, L; HIPPELAINEN, L

PATENT-ASSIGNEE:

ASSIGNEE

NOKIA NETWORKS OY

HIPPELAINEN L

CODE

OYNO

HIPPI

PRIORITY-DATA: 1999WO-EP00180 (January 14, 1999)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	<u>JP 2002535883 W</u>	October 22, 2002		029	H04L012/46
<input type="checkbox"/>	<u>WO 200042742 A1</u>	July 20, 2000	E	028	H04L012/56
<input type="checkbox"/>	<u>AU 9926173 A</u>	August 1, 2000		000	H04L012/56
<input type="checkbox"/>	<u>EP 1142218 A1</u>	October 10, 2001	E	000	H04L012/56
<input type="checkbox"/>	<u>CN 1338169 A</u>	February 27, 2002		000	H04L012/56
<input type="checkbox"/>	<u>US 20020078384 A1</u>	June 20, 2002		000	H04L009/00

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW DE ES FR GB IT

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002535883W	January 14, 1999	<u>1999WO-EP00180</u>	
JP2002535883W	January 14, 1999	2000JP-0594228	
JP2002535883W		WO 200042742	Based on
WO 200042742A1	January 14, 1999	<u>1999WO-EP00180</u>	
AU 9926173A	January 14, 1999	1999AU-0026173	
AU 9926173A	January 14, 1999	<u>1999WO-EP00180</u>	

AU 9926173A		WO 200042742	Based on
EP 1142218A1	January 14, 1999	1999EP-0906126	
EP 1142218A1	January 14, 1999	<u>1999WO-EP00180</u>	
EP 1142218A1		WO 200042742	Based on
CN 1338169A	January 14, 1999	1999CN-0815603	
CN 1338169A	January 14, 1999	<u>1999WO-EP00180</u>	
US20020078384A1	January 14, 1999	<u>1999WO-EP00180</u>	Cont of
US20020078384A1	July 10, 2001	2001US-0901814	

INT-CL (IPC): H04 L 9/00; H04 L 12/26; H04 L 12/46; H04 L 12/56; H04 L 29/06

ABSTRACTED-PUB-NO: US20020078384A

BASIC-ABSTRACT:

NOVELTY - The lawful interception nodes (LIN) are arranged as passive packets sniffers and filter on Ethernet segments so that all data transmitted via the backbone can be intercepted .It is able to read GPRS tunneling protocol (GTP) and then transmit to the lawful interception gateway (LIG) via the same physical interface. The intercepted packet is transmitted via a secure tunnel provided by an encryption process.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an interception system for performing a lawful interception in a packet network.

USE - For general packet radio services, universal mobile telecommunication systems network.

ADVANTAGE - The system is easily scalable because new lawful interception node (LIN) capacity can be added as the load increases and the interception gateway can be distributed over several units without adding hardware to it. In the event of a failure of the LIN some interception functions may not be available, this does not affect network functionality.

DESCRIPTION OF DRAWING(S) - The figure shows a principle block diagram of a system for performing a lawful interception.

Lawful Interception Node LIN

Lawful Interception Gateway LIG

ABSTRACTED-PUB-NO:

WO 200042742A

EQUIVALENT-ABSTRACTS:

NOVELTY - The lawful interception nodes (LIN) are arranged as passive packets sniffers and filter on Ethernet segments so that all data transmitted via the backbone can be intercepted .It is able to read GPRS tunneling protocol (GTP) and then transmit to the lawful interception gateway (LIG) via the same physical interface. The intercepted packet is transmitted via a secure tunnel provided by an encryption process.

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DESCRIPTION OF DRAWING(S) - The figure shows a principle block diagram of a system for performing a lawful interception.

Lawful Interception Node LIN

Lawful Interception Gateway LIG

CHOSEN-DRAWING: Dwg.2/4

TITLE-TERMS: INTERCEPT METHOD PACKET NETWORK GENERAL PACKET RADIO SERVICE UNIVERSAL MOBILE TELECOMMUNICATION SYSTEM INTERCEPT NODE GATEWAY

DERWENT-CLASS: W01 W02

EPI-CODES: W01-A03B; W01-A05A; W01-A06A; W01-A06B7; W01-A06G2; W01-B05A1A; W01-C02B6; W02-C03C1A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-374034

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L4: Entry 1 of 1

File: DWPI

Jun 9, 2004

DERWENT-ACC-NO: 1999-263832

DERWENT-WEEK: 200438

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TITLE: Traffic interception method e.g. for mobile packet radio network such as GPRS

INVENTOR: HAUMONT, S

PATENT-ASSIGNEE:

ASSIGNEE

CODE

NOKIA TELECOM OY

OYNO

NOKIA NETWORKS OY

OYNO

NOKIA CORP

OYNO

PRIORITY-DATA: 1997FI-0003806 (September 26, 1997)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	<a href="#">EP 1018241 B1</a>	June 9, 2004	E	000	H04L012/24
<input type="checkbox"/>	<a href="#">WO 9917499 A2</a>	April 8, 1999	E	024	H04L012/24
<input type="checkbox"/>	<a href="#">FI 9703806 A</a>	March 27, 1999		000	H04Q007/20
<input type="checkbox"/>	<a href="#">AU 9893515 A</a>	April 23, 1999		000	H04L012/24
<input type="checkbox"/>	<a href="#">EP 1018241 A2</a>	July 12, 2000	E	000	H04L012/24
<input type="checkbox"/>	<a href="#">FI 106509 B1</a>	February 15, 2001		000	H04Q007/20
<input type="checkbox"/>	<a href="#">CN 1277771 A</a>	December 20, 2000		000	H04L012/24
<input type="checkbox"/>	<a href="#">TW 429710 A</a>	April 11, 2001		000	H04L012/54
<input type="checkbox"/>	<a href="#">JP 2001518744 W</a>	October 16, 2001		031	H04L012/56
<input type="checkbox"/>	<a href="#">US 6654589 B1</a>	November 25, 2003		000	H04B017/00

DESIGNATED-STATES: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE AL AM AT AU AZ BA  
BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK  
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW AT  
BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
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EP 1018241B1	September 25, 1998	1998EP-0946489	
EP 1018241B1	September 25, 1998	<u>1998WO-FI00762</u>	
EP 1018241B1		WO 9917499	Based on
WO 9917499A2	September 25, 1998	<u>1998WO-FI00762</u>	
FI 9703806A	September 26, 1997	1997FI-0003806	
AU 9893515A	September 25, 1998	1998AU-0093515	
AU 9893515A		WO 9917499	Based on
EP 1018241A2	September 25, 1998	1998EP-0946489	
EP 1018241A2	September 25, 1998	<u>1998WO-FI00762</u>	
EP 1018241A2		WO 9917499	Based on
FI 106509B1	September 26, 1997	1997FI-0003806	
FI 106509B1		FI 9703806	Previous Publ.
CN 1277771A	September 25, 1998	1998CN-0810507	
TW 429710A	September 30, 1997	1997TW-0114332	
JP2001518744W	September 25, 1998	<u>1998WO-FI00762</u>	
JP2001518744W	September 25, 1998	2000JP-0514433	
JP2001518744W		WO 9917499	Based on
US 6654589B1	September 25, 1998	<u>1998WO-FI00762</u>	
US 6654589B1	March 24, 2000	2000US-0509318	
US 6654589B1		WO 9917499	Based on

INT-CL (IPC): H04 B 7/26; H04 B 17/00; H04 L 12/24; H04 L 12/54; H04 L 12/56; H04 Q 7/20; H04 Q 7/34; H04 Q 7/38

ABSTRACTED-PUB-NO: WO 9917499A

BASIC-ABSTRACT:

NOVELTY - A legal interception node (LIN) is installed into a network and in response to an order from a law enforcement authority (LEA), some of the traffic to be intercepted is sent to the LIN. The LIN sends some of the traffic sent to it to the LEA. Before the LIN sends some of the traffic, the LIN converts the traffic to a format supported by the LEA.

USE - For mobile packet radio network such as GPRS.

ADVANTAGE - Avoids need to intercept traffic in several different network element such as SGSN and GGSN nodes. No unnecessary information related to identity of suspected user is given away to third party. Allows law enforcement authorities to intercept communications to/from suspected user either in user's home network or his/her visited network. Honest (but suspected) users are not burdened with extra charging and dishonest users can detect long term intercepting by means of increased charging. In most situations, added delays are too small to be detectable.

DESCRIPTION OF DRAWING(S) - The figure shows a signaling diagram illustrating an embodiment of the invention.

CHOSEN-DRAWING: Dwg.3/3

TITLE-TERMS: TRAFFIC INTERCEPT METHOD MOBILE PACKET RADIO NETWORK

DERWENT-CLASS: W01-W02 -

EPI-CODES: W01-B03A; W01-B05A1A; W01-C02B2; W01-C02B6; W01-C08F; W02-C03C1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-196535

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